iQ 50

Operating Manual
Programming and diagnostic tool

W072210050 02/14

(DE) Originalbetriebsanleitung
(GB) Translation of the original operating instructions
(IT) Traduzione delle istruzioni di funzionamento originali
(FR) Traduction des instructions de service d'origine
(ES) Traducción del manual de instrucciones de servicio original
(NL) Vertaling van de originele gebruiksaanwijzing
(DK) Oversættelse af den originale betjeningsvejledning
(NO) Original driftsinstruks i oversettelse
(TR) Orijinal işletim kılavuzunun çevirisi

DE .....

GB .....

IT .....

FR .....

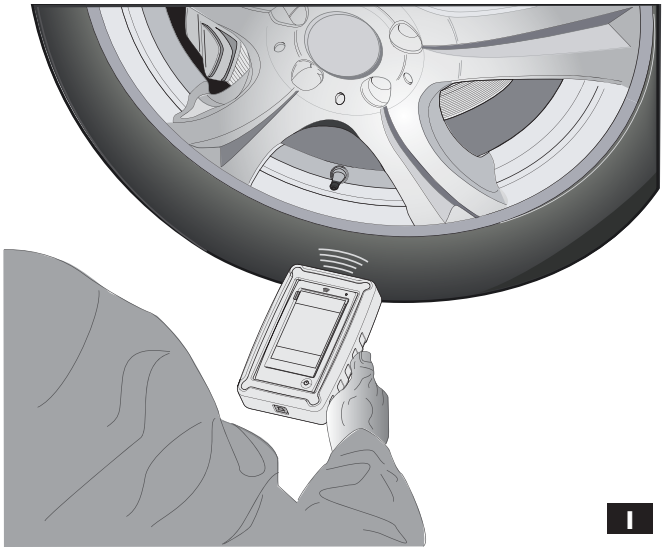
ES .....

NL .....

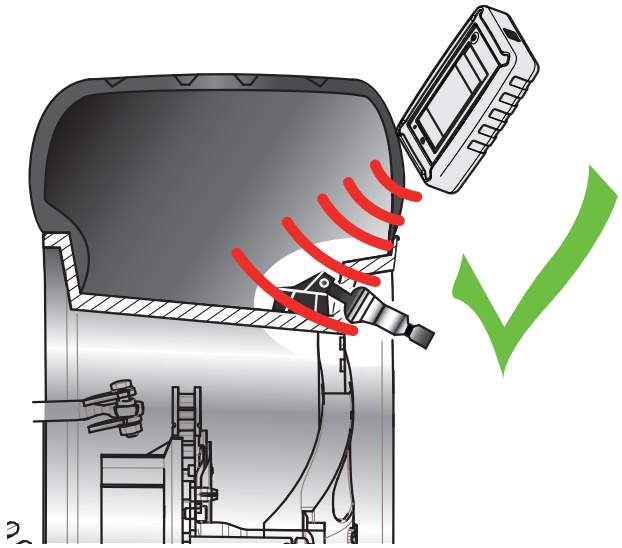
DK .....

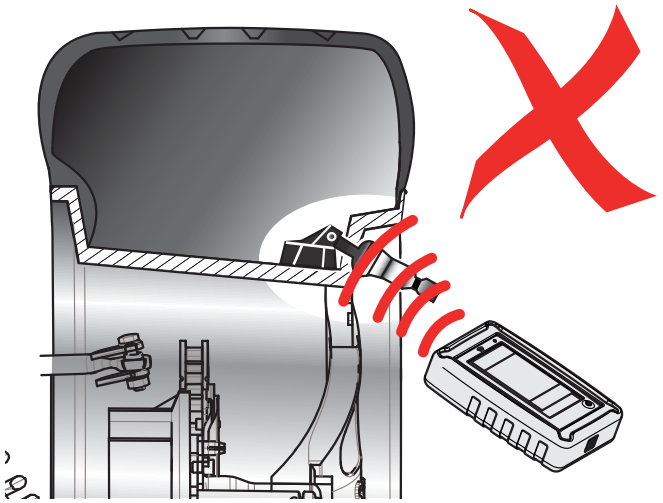
NO .....

TR .....



I





II

Contents

Device Overview [Fig. I]....5

Positioning [Fig. II] 5

System Overview iQ 50 6

Device Data / Ambient Conditions 6

Scope of Supply....6

For Your Safety 7

Intended Use....7

Warranty....7

Notes on the Environment....7

Charging Device....8

Charging at Charger 8

Checking Battery Status 8

Registration 9

Commissioning 10

Language Selection 10

Select Pressure Format....11

Select Temperature Format....12

Select Sensor ID Format 12

Set Time....13

Set Date....13

1. iQ 50 - (Programming and Diagnostic Tool)14

1.1 Operating Elements....14

1.2 Handling 14

1.3 Touchscreen 14

1.4 Status Bar 15

1.5 Main Menu (Home Screen) 15

1.6 Navigation Bar....15

2. Vehicle Selection (Button 2)....16

2.1 Quick Start or New Vehicle 16

2.2 Manufacturer Selection 17

2.3 Model Selection....17

2.4 Production Year Selection....18

2.4.1 Select Rim Type....18

2.4.2 Enter License Plate....19

2.5 Start Menu for Programming and Diagnostics 20

2.5.1 Wheel Symbols (Meanings)....20

2.5.2 Wheel Sensor Context Menu 21

2.5.3 Start Menu Context Menu 21

2.6 Sensor Information 22

2.6.1 Sensor OK....22

2.6.2 Sensor NOK 22

2.6.3 Sensor Details 23

2.7 Sensor Test 24

2.7.1 Procedure 24

2.7.2 Sensor Test, Values OK....25

2.7.3 Sensor Test, Values NOK 25

2.7.4 Duplicate Sensor ID Found 26

2.7.5 Sensor Not Recognized 26

2.7.6 Battery Voltage Low 27

2.7.7 Overview of All Sensors....27

2.8 Replace Sensor....28

2.8.1 Replace with EZ Sensor 28

2.8.2 Replace with OE Sensor 29

2.9 Program Sensor 29

2.9.1 Copy/Create Sensor....29

3. Vehicle Selection Last 100 (Button 3).....30

3.1 List of Last 100 Vehicles 30

4. Help (Button 4)....31

5. Settings (Button 5)....31

6. Quick Start....32

6.1 Replace / Copy / Create Sensor 32

6.2 Teach in Sensor at the Vehicle 32

EU Declaration of Conformity 33

WOW! Install Software 36

Installation Procedure....36

WOW! Register Software....36

Device Overview [Fig. I]

① **Antenna range**

② **LED power display**

③ **Touchscreen**

④ **Protective case**

⑤ **Power button**

⑥ **USB port**

Positioning [Fig. II]

Device position on the tyre

Note

In order to ensure reliable data reception from the wheel sensor, the **iQ 50** must be held at the right point on the tyre.

Always position the **iQ 50** on the sensor so that the transmit/receive antenna is facing towards the wheel sensor. Never hold against the wheel rim – that impairs the transmission power.

The device must be held against the tyre very close to the area of the valve (the antenna area must be facing towards the tyre). [see **Fig. II**]

If data transmission cannot be established, change the position by a few centimetres.

System Overview iQ 50

Device Data / Ambient Conditions

Article	W0722100050
Dimensions (incl. protective case)	approx. 165 x 106 x 41 mm
Weight	approx. 450 g
Max. operating time	approx. 9 hours (after complete charging) approx. 150 programming operations of an EZ sensor approx. 300 activation operations of a TPM sensor
Automatic shutdown	after 300 to 1800 sec., freely variable (300 sec. factory setting)
Storage temperature	-20°C to +60°C
Operating temperature	20°C to +60°C
Dust / water protection (operation)	IP52
Memory (internal)	Micro SD card, 8 GB, Class 10
Data interfaces	USB V2.0 / Bluetooth Class 1.5 / WiFi 2.4 GHz, 802.11 b g n
Bluetooth range	Air approx. 60 m Building approx. 30 m

Scope of Supply

W072210050 iQ 50 without RDKS Snooper +	W072200050 iQ 50 with RDKS Snooper +
iQ 50 programming and diagnostic tool	**iQ 50** programming and diagnostic tool
USB cable for **iQ 50** for charging and data transfer	USB cable for **iQ 50** for charging and data transfer
Power pack for **iQ 50** with EU and UK adapters	Power pack for **iQ 50** with EU and UK adapters
Quick-start guide for **iQ 50**	Quick-start guide for **iQ 50**
WOW! DVD software, manual, links	WOW! DVD software, manual, links
	TPMS Snooper+
	Snooper+ USB cable A-B
	Manual Snooper+

For Your Safety

Read this operating manual before using the device for the first time and act accordingly. Keep this operating manual in a safe place for later use or for a new owner.

This manual can also be downloaded from *www.portal.com*.

Use only original WOW! accessories and spare parts.

The device must not be operated in a wet or damp environment. Do not expose the device to rain.

Intended Use

The **iQ 50** is intended as a programming and diagnostic tool for wheel sensors using the WOW! original accessories.

The device is intended only for the applications described in the operating manual. Any other use is not permitted and can lead to accidents or destruction of the device. Such uses will immediately void all the user's guarantee and warranty claims against the manufacturer.

The user is liable for all damage resulting from any unintended use.

Warranty

The **iQ 50** must be handled with care, even though it has been designed for use in a workshop (collisions, shock, vibrations, dust). For this WOW! device we offer a warranty in accordance with the statutory/national regulations from the date of purchase (evidenced by invoice or delivery note).

Damage will be remedied by repair or substitute delivery. Damage caused by improper handling is not covered by the warranty. Complaints can only be acknowledged if the device is handed over in one piece to a WOW!-authorised customer service station.

Subject to technical modifications. We assume no liability for printing errors.

Notes on the Environment

Electric tools, accessories and packagings should be recycled in an environmentally friendly manner.

For EU countries only:

Do not throw away the electric tool with the household waste.

In accordance with European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in national law, electric tools which can no longer be used must be collected separately and recycled in an environmentally friendly manner.

Batteries:

Do not throw batteries into the household waste, into a fire or water. Batteries should be collected, recycled or disposed of in an environmentally friendly manner.

For EU countries only:

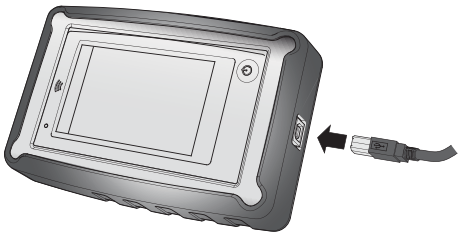
In accordance with Directive 2006/66/EC, defective or old batteries must be recycled. In Germany, equipment and/or batteries which can no longer be used can be returned to WOW! for recycling.

Charging Device

Warning

Only the charger and USB charging cable supplied may be used for charging. The device can also be charged using the USB charging cable supplied by connecting to a USB port of a computer. Use of a different USB cable or charging of the **iQ 50** at a computer USB port can result in a significantly longer charging time!

Charging at Charger



Connect the charger to the USB port of the device.

If the device is not correctly connected to the charger, this can result in serious damage to the device. All damage caused by misuse is not covered by the warranty.

- The device can be used during charging.
- If the device is connected to an unstable power supply during charging, it is possible that the touchscreen does not function. In this case, disconnect the power supply.
- If the Status LED lights up red, the charge state is too low and the device has to be recharged.
- If the battery is fully discharged and the charger is connected, the device cannot be switched on immediately. Before the device can be used again, the empty battery has to be charged for a few minutes.

The device can become warm during charging. That is normal and does not influence the service life or performance of the device. If the battery becomes hotter than normal, the charger may stop charging.

If the charger does not charge correctly, please contact your local WOW! service partner.

Checking Battery Status

If the battery is charged while the device is switched off, the charge status is displayed only via the Status LED.

(Position of the LED, see chapter *„Device Overview [Fig. I]“ on page 5).*

LED Colour	Description
Red (lit)	Device is charging
Rot (flashing) / 0.6 sec. ON and 1.2 sec. OFF	Battery charge below 5% and not charging
Rot (flashing) / 0.4 sec. ON and 0.4 sec. OFF	Wrong charger connected
Rot (flashing) / 1.2 sec. ON and 1.2 sec. OFF	Temperature outside the permissible range
Green (lit)	Device fully charged
Green (flashing)	Device starting

Registration

At each start, a registration prompt is displayed until the device has been registered for the first time with the manufacturer. We recommend that registration is carried out as quickly as possible in order to receive new updates. For registration of the **iQ 50**, the WOW! software must be installed on a computer. See chapter *"Install software" on page <ÜS>.*

Registration allows the database of the **iQ 50** to be updated. The database contains comprehensive information on manufacturers, vehicles and the corresponding sensor types. The manufacturer strives to keep the database up-to-date at all times.

Please update the database of your **iQ 50** if you cannot test a sensor on a particular vehicle.

1 Press button **Later** to skip the procedure

A message is displayed when the licence has expired.

Please update your licence then to continue to receive updates for the database of your **iQ 50**.

Procedure

Start the WOW! application on the PC.

Select Program settings -> Registration -> Shop. In the licence list, select the following licence "**W015000040** WSD 50 Basis Licence **iQ 50** Subscription" and order.

After receipt of the enable, carry out an online update. Connect the **iQ 50** to the computer with the WOW! application open.

The new licence and any new update is automatically transferred to the **iQ 50**.

1 Press button **Cancel** to skip the procedure

Commissioning

Warning

Before using the device for the first time, it must be fully charged once (green LED).

Only the charger and USB charging cable supplied may be used. Use of other chargers and/or caboles will void the warranty.

A few settings have to be made during commissioning. The basic configuration of the device is set with these inputs. These settings can be called up again and changed at any time in the **Settings** menu (button 5).

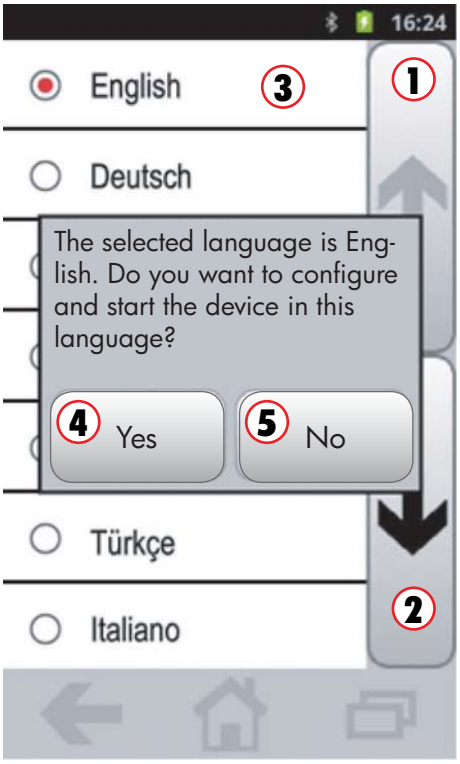
Language Selection

The available languages are displayed.

1. Display the available languages using the selection buttons ① - ②.
2. Select the desired setting by touching the selection.
   - ▶ The next selection menu is displayed automatically.

① Scroll up (not active)
② Scroll down (next menu)

The device can be switched between 9 different languages. The setting can be changed at any time in the **Settings** menu.



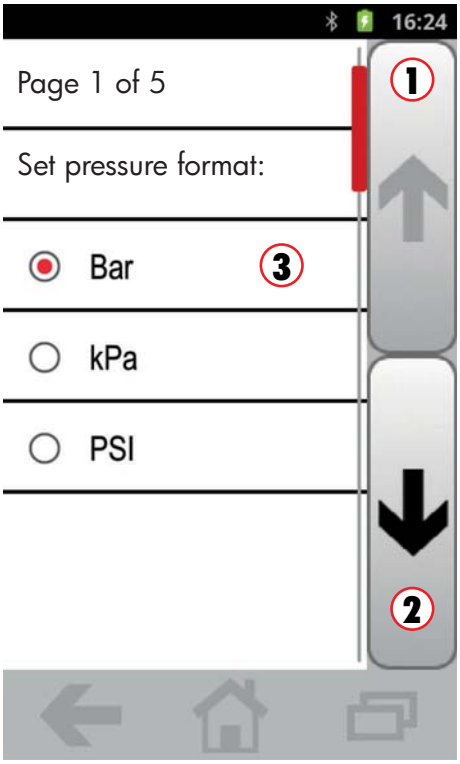
Confirm selected language.

Before the selected language ③ is finally activated, a confirmation prompt is displayed.

① Scroll up (previous menu)
② Scroll down (next menu)
③ Activated selection (marked in red)
④ Press button **Yes** (language is changed)
⑤ Button **No** (back to Select language)

The setting can be changed at any time in the **Settings** menu.

Select Pressure Format



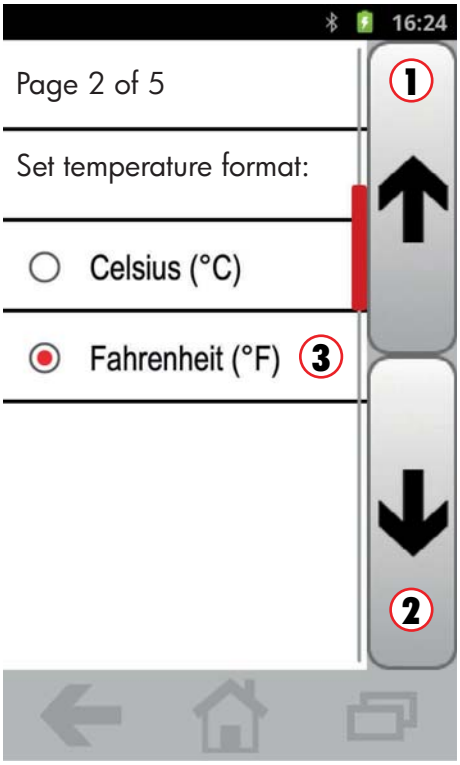
The available pressure units are displayed.

1. Select the pressure units using the selection buttons ① - ②.
2. Select the desired setting by touching the selection.
   ▶ The next selection menu is displayed automatically.

① Scroll up
② Scroll down
③ Activated selection (marked in red)

The setting can be changed at any time in the **Settings** menu.

Select Temperature Format



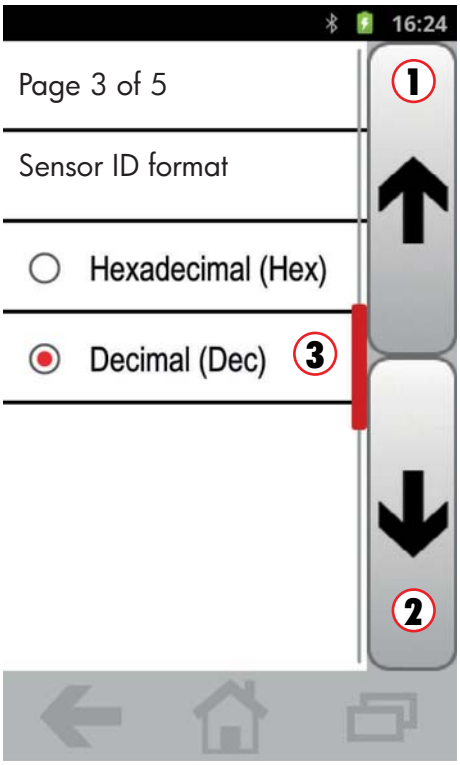
The available temperature units are displayed.

1. Select the temperature units using the selection buttons ① - ②.
2. Select the desired setting by touching the selection.
   - ▶ The next selection menu is displayed automatically.

① Scroll up
② Scroll down
③ Activated selection (marked in red)

The setting can be changed at any time in the **Settings** menu.

Select Sensor ID Format



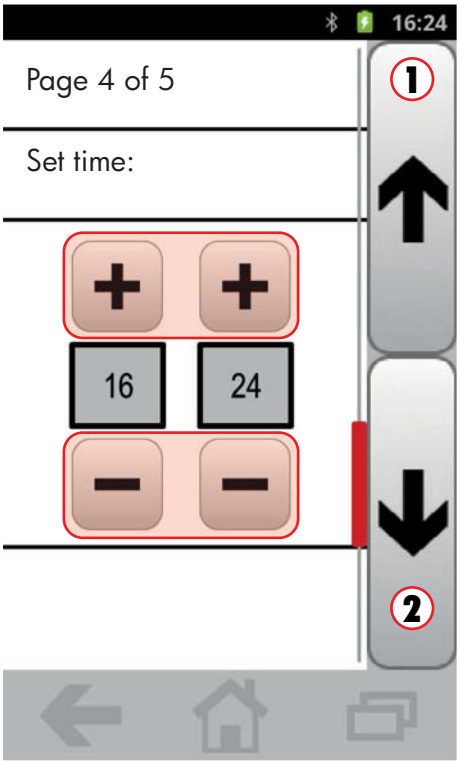
The available sensor units are displayed.

1. Select the sensor units using the selection buttons ① - ②.
2. Select the desired setting by touching the selection.
   (The setting can be changed at any time during operation).
   - ▶ The next selection menu is displayed automatically.

① Scroll up
② Scroll down
③ Activated selection (marked in red)

The setting can be changed at any time in the **Settings** menu.

Set Time



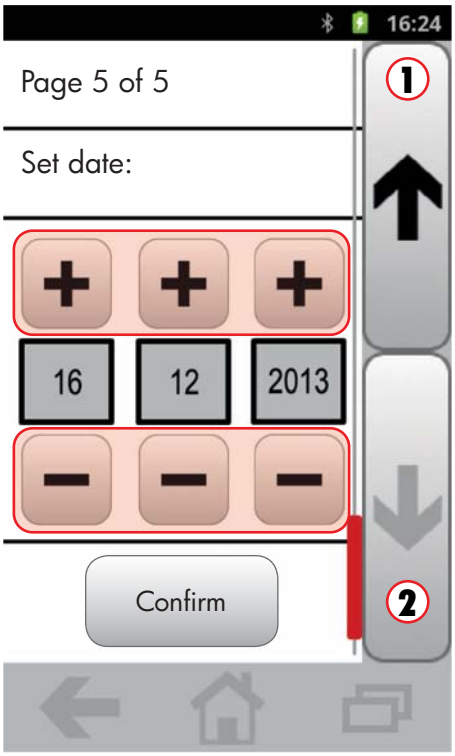
Set the current time.

1. Set the current hours using the selection buttons ⊕ and ⊖.
2. Set the current minutes using the selection buttons ⊕ and ⊖.

① Scroll up
② Scroll down
- The settings are saved.
- The next selection menu is displayed.

The setting can be changed at any time in the **Settings** menu.

Set Date



Set the current date.
(This is the last input of the basic configuration)

1. Set the current day using the selection buttons ⊕ and ⊖.
2. Set the current month using the selection buttons ⊕ and ⊖.
3. Set the current year using the selection buttons ⊕ and ⊖.
4. Press button **Confirm** ③.
   - The setting procedure has been completed. The settings are saved.

① Scroll up
② Scroll down (not active)
③ Press button **Confirm**

The setting can be changed at any time in the **Settings** menu.

1. iQ 50 - (Programming and Diagnostic Tool)

1.1 Operating Elements

Power button	Function	Behaviour
	ON / OFF	Press and hold
	Reset	Press and hold for longer than 10 seconds. Device is restarted if there was a malfunction.
	Stand by	Press (briefly) Switch display ON and OFF.

1.2 Handling

Never touch the area of the antennae [**Fig. I**] with your hand or cover with other objects.
This can interfere with the data transmission or shorten the battery life.
Position the **iQ 50** on the wheel as shown in [**Fig. II**].

Note

Always position the **iQ 50** on the sensor so that the transmit/receive antenna is facing towards the wheel sensor. Never hold against the wheel rim – that impairs the transmission power.

1.3 Touchscreen

Warning

In order to avoid damage to the touchscreen, do not touch with pointed objects or apply too much pressure. Operate the touchscreen only with your fingers.

- Do not bring the touchscreen into contact with other electrical devices. Electrostatic discharges can lead to malfunctions of the touchscreen.
- Ensure that the touchscreen does not come into contact with water. The touchscreen may malfunction in a damp atmosphere or on contact with water.
- If the touchscreen remains switched on for prolonged periods without being used, images may burn into the screen. Switch off the touchscreen when the device is not being used.
- Swiping movements and other gestures are not supported by the **iQ 50** hand-held terminal.

1.4 Status Bar

Information and symbols in the status bar are also subject to technical further development. They can be expanded or changed by future updates.

The status bar displays information on internal components such as bluetooth, USB and WiFi. The current time is displayed on the right-hand side.

Status Displays

Display	Meaning
	USB connection established
	Bluetooth connection activated
	Battery status display
	Current time

1.5 Main Menu (Home Screen)

The Start screen is the starting point. All the functions of the device are called up via this screen.

1. Status bar
2. Vehicle selection
   see (*„Vehicle Selection (Button 2)“ on page 16)*
3. Vehicle Selection Last 100
   see („Vehicle Selection Last 100 (Button 3)“ on page 30)
4. Help
   see („Help (Button 4)“ on page 31)
5. Settings
   see („Settings (Button 5)“ on page 31)
6. Navigation bar

1.6 Navigation Bar

The navigation bar has 3 buttons:

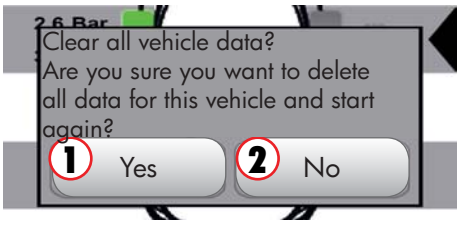
1. Back (to the previous mask)
2. Home (to the Start screen)
3. Context

2. Vehicle Selection (Button 2)

Pressing this button calls up the "Vehicle selection" menu in which you select the vehicle to be tested and proceed to the function "Test before touch".

During general settings and/or preparatory work (e.g. selection of the vehicle), the **iQ 50** can be left anywhere.

During all actions where a sensor is to be activated, read out or programmed, the **iQ 50** must be positioned against the wheel [see **Fig. II**].

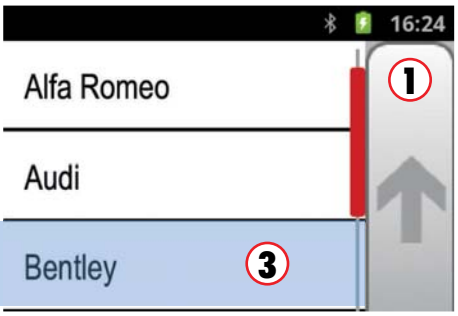


If data are already stored on the device, the confirmation prompt shown here is displayed

1. Press button **Yes** (1) to erase the device memory. A new programming and diagnostic routine can be started.
2. Press button **No** (2) to cancel the operation. The data remain stored for further use.

2.1 Quick Start or New Vehicle

With the **iQ 50** there are **two** possibilities of starting the wheel sensor test.



Select New Vehicle

A new vehicle not yet tested is selected.

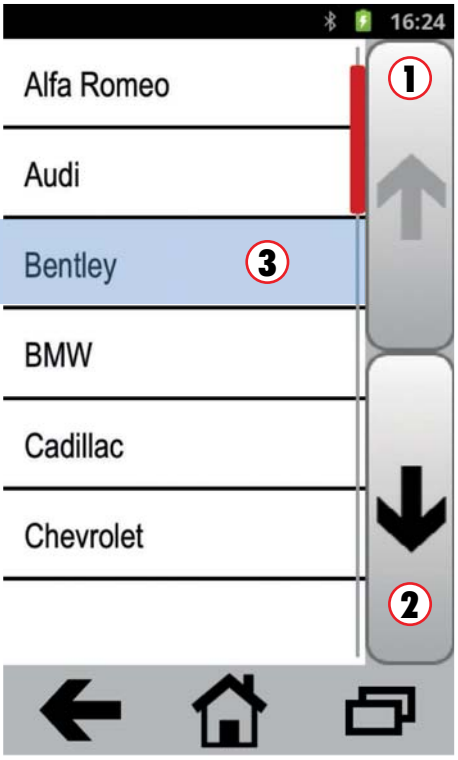
This comprehensive route is described after the menu, see (*„2.2 Manufacturer Selection"*).

Quick Start

If a certain vehicle has already been tested once, the database is stored in the list of the last 100 vehicles.

A test on this vehicle can be called up immediately, see (*„3.1 List of Last 100 Vehicles"*).

2.2 Manufacturer Selection



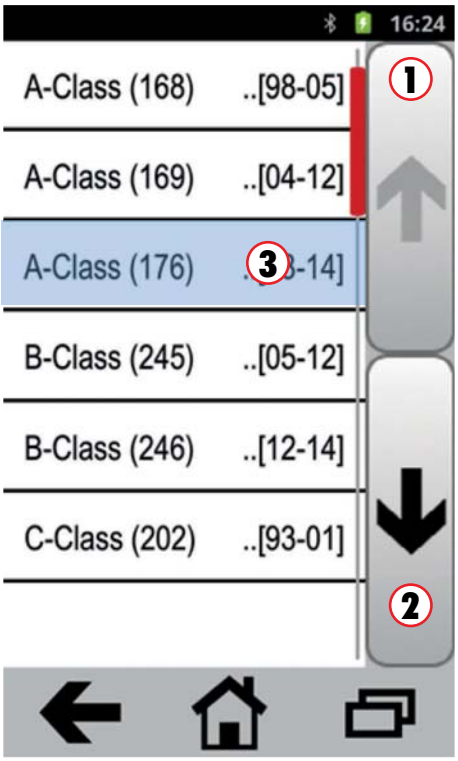
To create a new routine, the exact vehicle type has to be set.

1. Select the manufacturer using the selection buttons.
2. Press to activate the identified manufacturer.
   - ▶ The next menu is displayed automatically.

① Scroll up
② Scroll down
③ Activated selection (blue background)

Selected elements are displayed on a blue background.

2.3 Model Selection



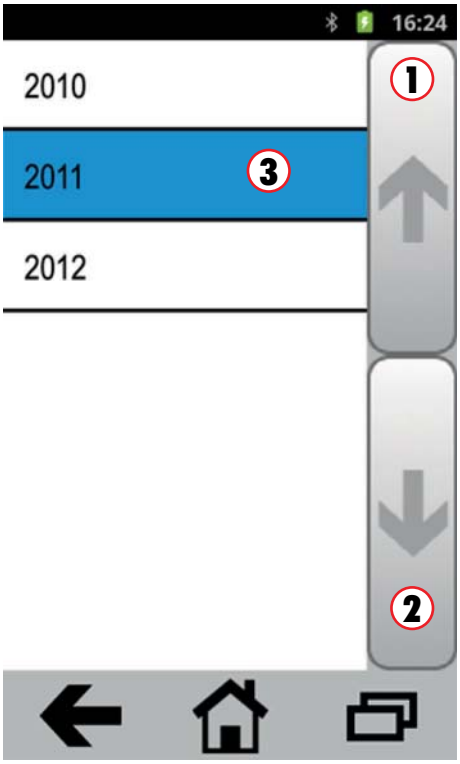
All available vehicle models of the selected manufacturer are displayed.

1. Select the model using the selection buttons.
2. Activate the model by pressing.
   - ▶ The next menu is displayed automatically.

① Scroll up
② Scroll down
③ Activated selection (blue background)

Selected elements are displayed on a blue background.

2.4 Production Year Selection



All possible production years of the selected model are displayed.

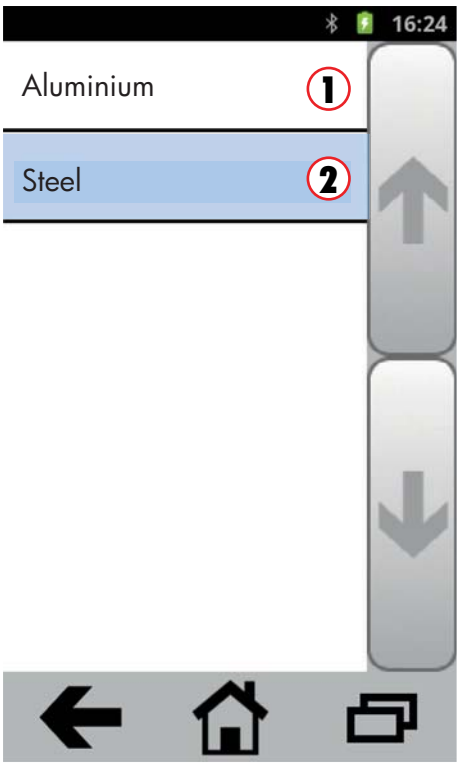
1. Select the production year using the selection buttons.
2. Activate the production year by pressing.
   - ▶ The next menu is displayed automatically.

① Scroll up
② Scroll down
③ Activated selection (blue background)

The production year and the year of first registration of a vehicle can differ from one another.

Please ensure that you select the production year of the vehicle here.

2.4.1 Select Rim Type



Select rim type.

① Aluminium rim
② Steel rim

2.4.2 Enter License Plate

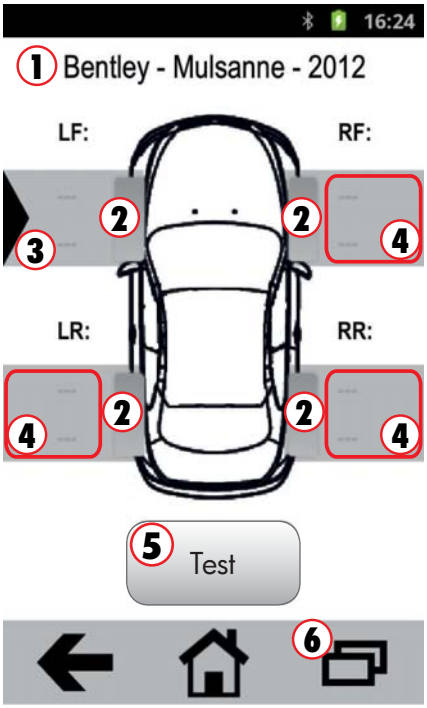
Enter license plate.

The input of the license plate is optional. The input can be switched ON/OFF in the **Settings** menu).

① Enter license plate
② Display of the input
③ Continue, the input is saved

This input allows the vehicle to be quickly and reliably identified from the list of the last 100 vehicles if it is required again.

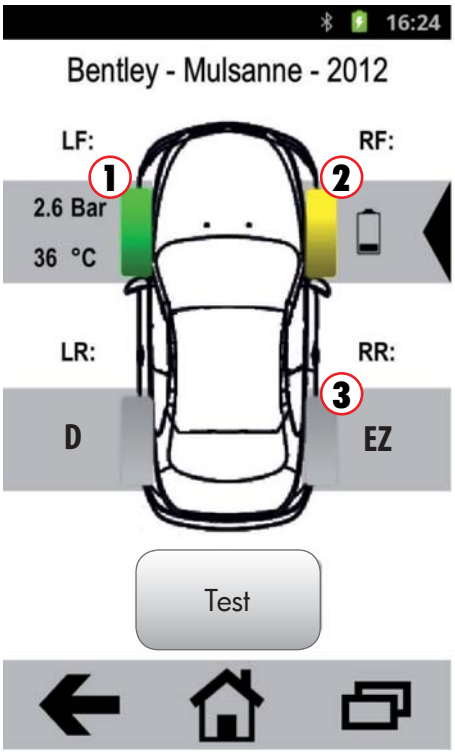
2.5 Start Menu for Programming and Diagnostics



The Start menu is the starting point for all programming and diagnostic functions of the **iQ 50**.

- The set vehicle data ① are displayed in the upper half of the screen.
- An exemplary vehicle with 4 wheel symbols ② is displayed in the middle.
- Before a wheel sensor can be programmed, it first has to be selected. This is done by briefly touching the area ④ alongside the wheel symbol.
- The selected wheel is marked with a black triangle ③.
- Pressing the area ④ alongside the wheel symbol for longer calls up the context menu of the wheel sensor (*„2.5.2 Wheel Sensor Context Menu“ on page 21)*
- Press button **Test** ⑤ to activate the selected wheel sensor (*„2.7 Sensor Test“*)
- Press button ⑥ to call up the context menu of the Start menu (*„2.5.3 Start Menu Context Menu“*)

2.5.1 Wheel Symbols (Meanings)



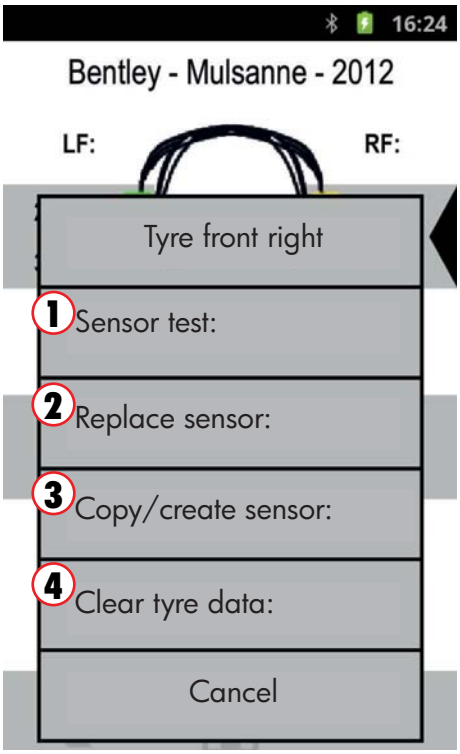
The wheel symbols can be displayed in 3 different colours:

Colour	Meaning
Green ①	Sensor activated, values OK Temperature and pressure are displayed. (*„2.6.1 Sensor OK“*)
Yellow ②	Sensor activated, values NOK. (*„2.6.2 Sensor NOK“*)
Grey ③	Sensor not tested / not activated.

Various items of information can be displayed alongside the wheel symbols:

Info	Meaning
Battery	Battery voltage of the wheel sensor very low The wheel sensor should be replaced immediately .
EZ	EZ sensor detected (programmable sensor)
OE	OE sensor detected (original sensor from vehicle manufacturer)
D	Duplicate sensor ID found

2.5.2 Wheel Sensor Context Menu



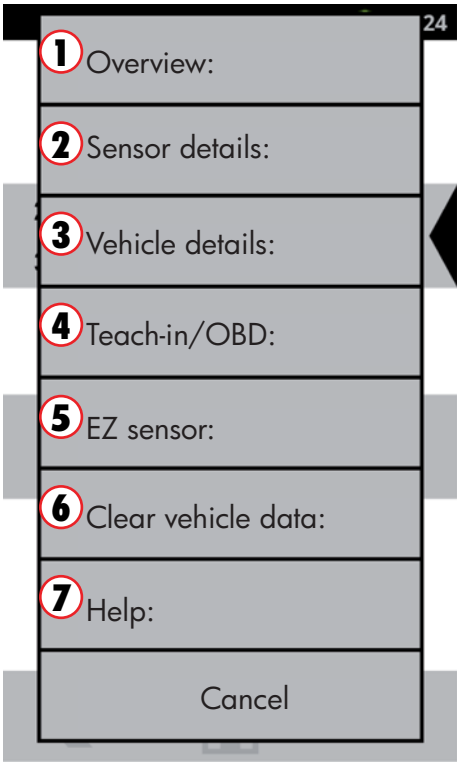
Pressing the area ④ (see *2.5*) alongside the wheel symbol for longer calls up the context menu of the wheel sensor. The context menu offers fast access to programming functions.

First line: Display of the momentary wheel position.

1. Press button **Sensor Test** ① to test the selected wheel sensor (*„2.7 Sensor Test“*).
2. Button **Replace Sensor** ② (*„2.8 Replace Sensor“*).
   If the tested sensor is OK, this function cannot be called up.
3. Button **Copy/Create Sensor** ③ (*„2.9 Program Sensor“*).
   If there are no data in the database of the i**Q 50** on this vehicle, this function cannot be called up (*„Registration“*).
4. Taste **Clear tyre data** ④ deletes the current procedure.
5. Press button **Cancel** to cancel the operation.

In order keep the database of your device constantly up-to-date, connect your **iQ 50** to the update server at regular intervals.

2.5.3 Start Menu Context Menu

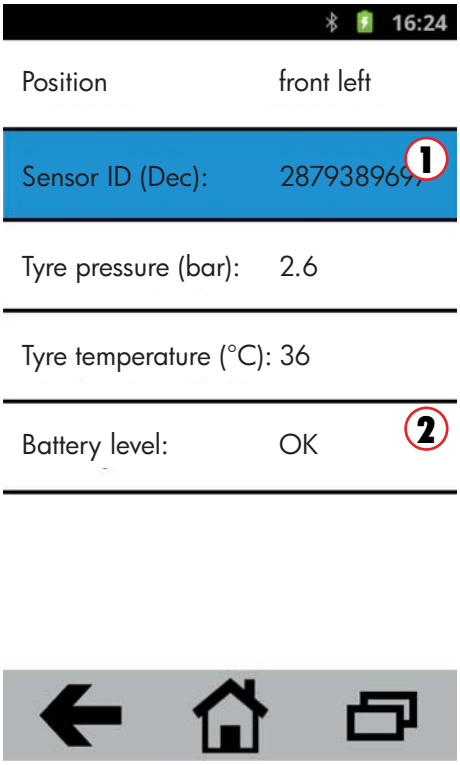


The context menu of the Start menu offers fast access to a wide variety of functions.

1. Overview: Display of pressure, temperature, sensor batteries.
2. Display of sensor information
3. Display of vehicle information
4. Teach-in / OBD
5. EZ sensor (*„2.9.1 Copy/Create Sensor“*).
6. Clear vehicle data
7. Help menu

2.6 Sensor Information

2.6.1 Sensor OK



The example shown here is displayed after a brief press on a green wheel symbol. It shows further information on a wheel sensor whose values are all OK.

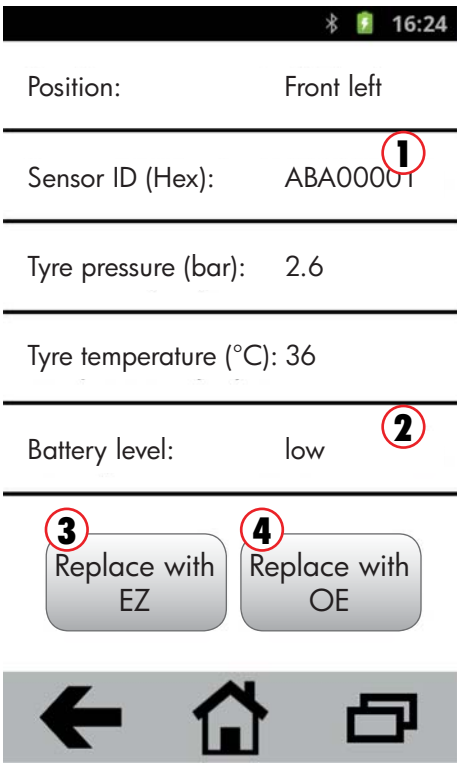
It shows:

- Wheel position
- Sensor ID ((Dec) or (Hex))
- Current tyre pressure
- Current tyre temperature
- Battery voltage of the wheel sensor (OK or Low)

Value	Description / Remedy
Battery: OK ②	Battery voltage of the wheel sensor OK

Pressing the field **Sensor ID** ① switches the display between (Dec) decimal and (Hex) hexadecimal.

2.6.2 Sensor NOK



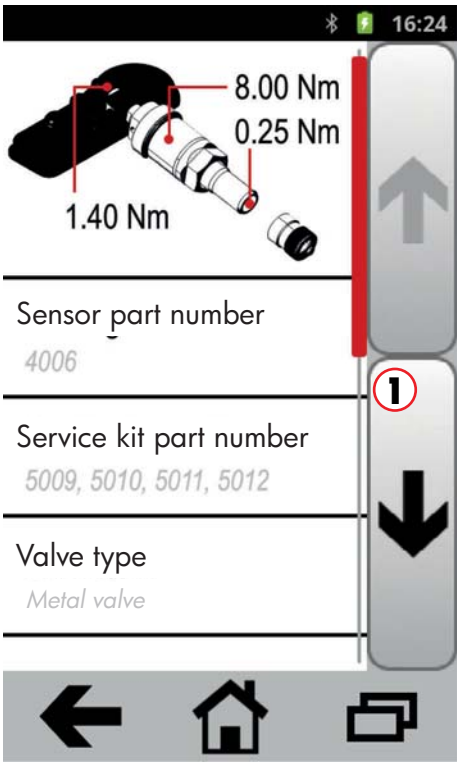
The example shown here is displayed after a brief press on a yellow wheel symbol. It shows information on a wheel sensor where at least one value is NOK.

The NOK value is marked with a small warning symbol.

Value	Description / Remedy
Sensor ID ①	This sensor ID has already been assigned to another sensor on the vehicle. A new sensor ID has to be entered or generated for this sensor (*„2.9.1 Copy/Create Sensor“*).
Battery low ②	Battery voltage of the wheel sensor very low The wheel sensor should be replaced immediately.

1. Press button **EZ** ③ to continue to (*„2.8.1 Replace with EZ Sensor“*).
2. Press button **OE** ④ to continue to (*„2.8.2 Replace with OE Sensor“*).

2.6.3 Sensor Details



The example here shows details of a selected sensor.

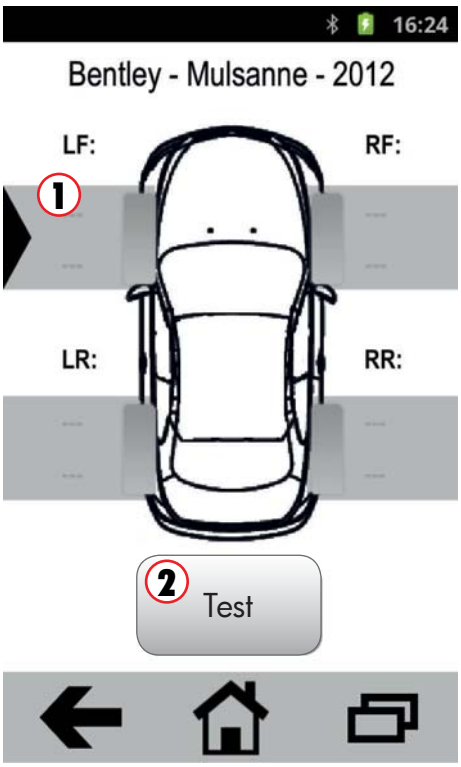
It shows:

- Torques for fitting
- Sensor part number
- Service kit part number
- Valve type

1. Pressing button ① displays further sensor details

2.7 Sensor Test

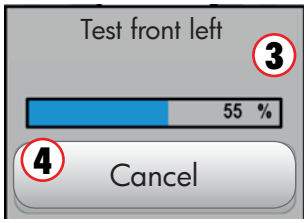
2.7.1 Procedure



During the test, the data transmission of the wheel sensor is switched on and its status read out.

Procedure:

1. Select the wheel sensor to be tested.
   - ▶ A black triangle marks the selected wheel sensor.
2. Position the device at the wheel sensor [see **Fig. II**]
3. Press button **Test** ② to start the test of the selected wheel sensor.



A progress bar ③ is displayed during the procedure.

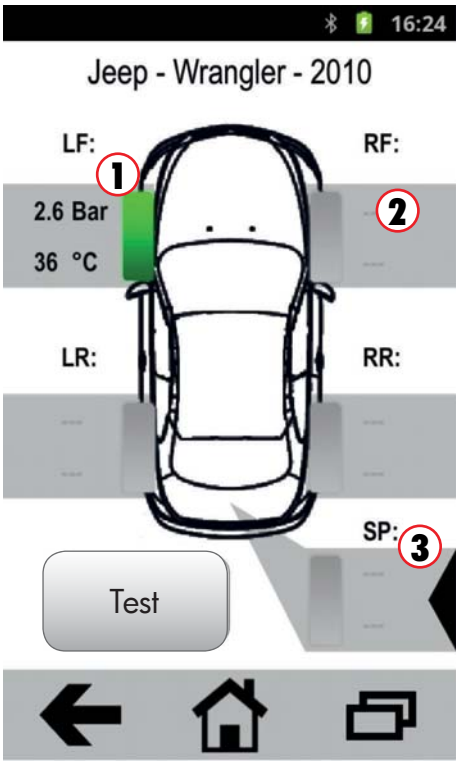
Press button **Cancel**④ to cancel the operation.

In some cases it is possible that the data transmission from the wheel sensor cannot be stopped by pressing the **Cancel** ④ button. But the **iQ 50** does not receive any further data and the display of the device is not refreshed.

4. The result of the test is displayed in the form of coloured wheel symbols (*„2.5.1 Wheel Symbols (Meanings)“*).

The next wheel is automatically selected

2.7.2 Sensor Test, Values OK

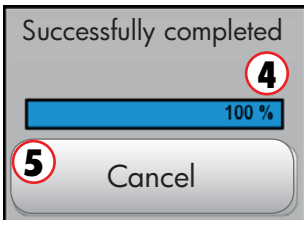


The result of the test is displayed in the form of coloured wheel symbols (1)

Colour	Meaning
Green	Sensor tested and activated, values OK
Yellow	Sensor tested and activated, values NOK
Grey	Sensor not yet tested

1. Continue with the test of the other wheels.

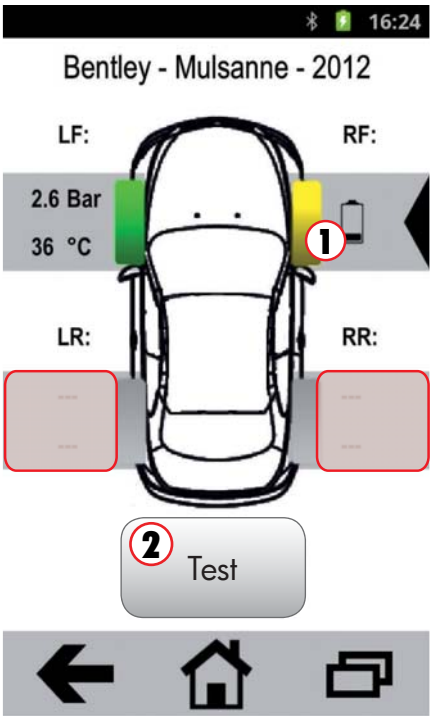
The next wheel (2) is automatically selected (in this case the right front wheel).
A spare wheel (3) can also be tested.



The successful activation (4) is displayed for approx. 2 seconds.

Pressing button (5) cancels the display again.

2.7.3 Sensor Test, Values NOK

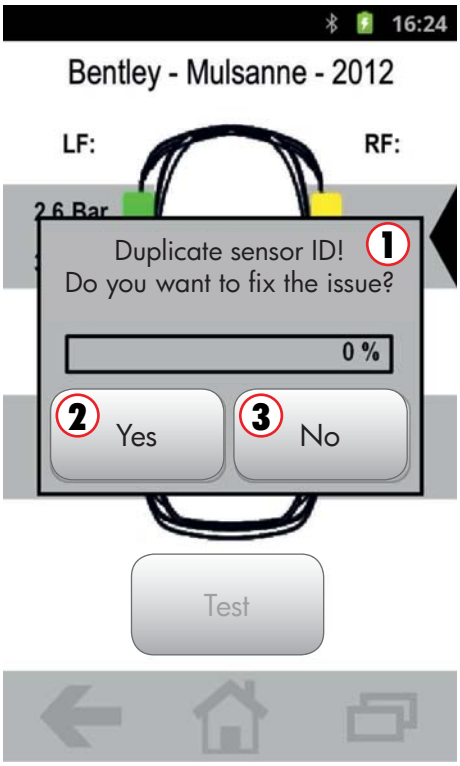


The example here shows an activated wheel sensor (1) with an NOK value.
The battery symbol alongside the wheel signals that the battery voltage of the wheel sensor is very low.

This wheel sensor should be replaced immediately.
While the wheel sensor for this wheel is being replaced, the test of the other wheel sensors can be continued.

1. Select and test the next wheel sensor.
   - The selected wheel is marked by a black triangle.
2. Press button **Test** (2) to start the test of the selected wheel sensor.

2.7.4 Duplicate Sensor ID Found

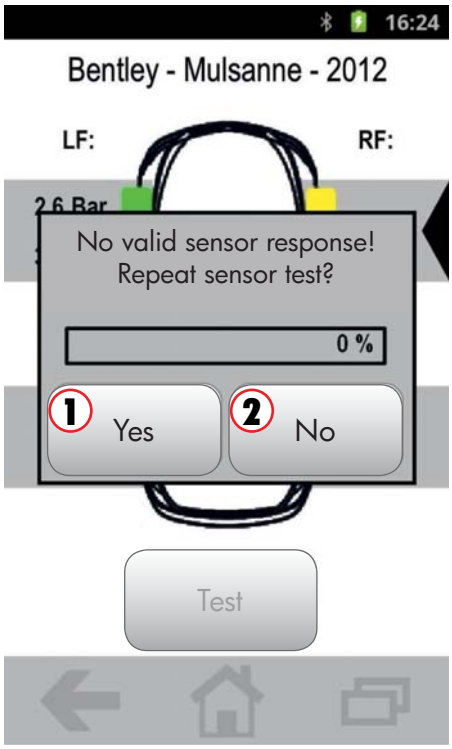


In the example here, the sensor could not be activated. A duplicate sensor ID (1) was found. This means that this sensor ID has already been assigned to another wheel sensor on the vehicle.

1. Press button **Yes** (2) to proceed to the programming of the sensor (*„2.8 Replace Sensor“*).
   - ▶ A faulty result can be corrected.
2. Press button **No** (3) to cancel the operation.
   - ▶ The sensor is marked in yellow.
   - ▶ Another wheel can be selected.

The problem does not have to be remedied immediately.
It is possible to carry out the test on this wheel again at any time.

2.7.5 Sensor Not Recognized



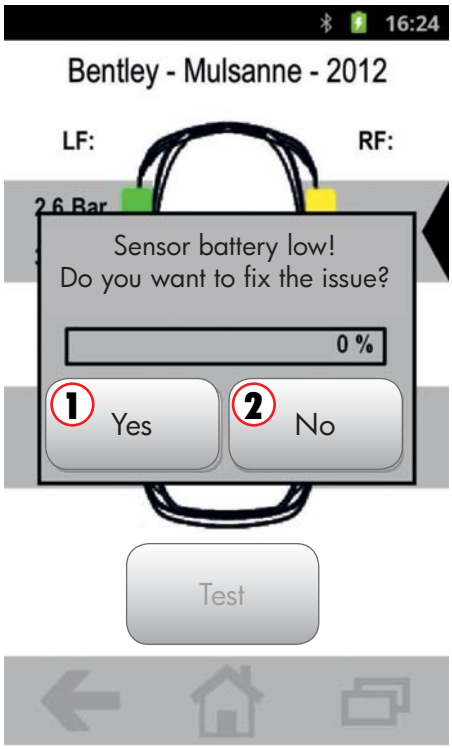
This warning message is displayed if a wheel sensor is not recognised or a test was not successful.

Possible causes

- Wrong position of the **iQ 50** on the wheel [see **Fig. II**]
- No sensor installed
- Sensor defective
- Battery discharged

1. Press button **Yes** (1) to repeat the attempt to activate the sensor.
2. Press button **No** (2) to cancel the operation.
   - ▶ The Start menu with the vehicle symbol is displayed

2.7.6 Battery Voltage Low



This warning message is displayed if the battery voltage of the wheel sensor is very low.

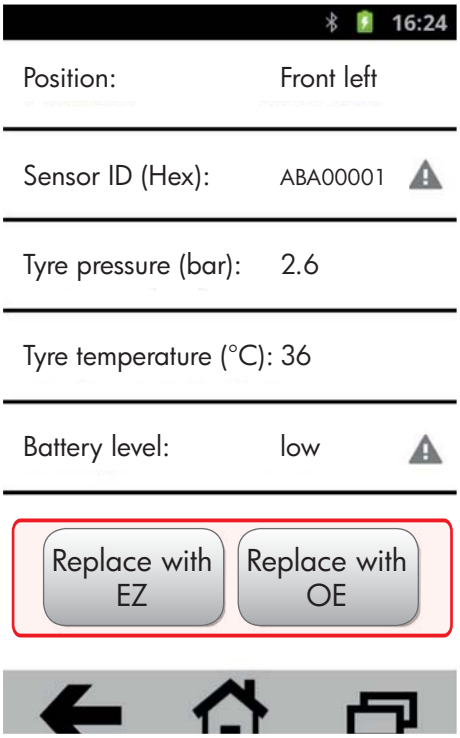
1. Press button **Yes** ① to proceed to (*„2.8 Replace Sensor“*).
2. Press button **No** ② to cancel the operation.

2.7.7 Overview of All Sensors

This display gives an overview of the current status of all the wheel sensors.

Pos.	Meaning	Condition
LF	Left front wheel	Battery voltage low
RF	Right front wheel	untested
LR	Left rear wheel	untested
RR	Right rear wheel	untested
SP	Spare wheel	untested

2.8 Replace Sensor



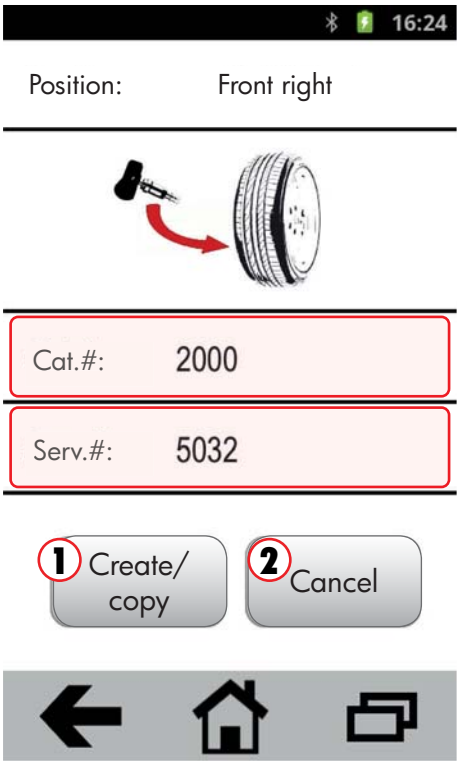
For the replacement of a wheel sensor, the **iQ 50** offers the possibilities of activating an OE sensor or of programming a new EZ sensor for the vehicle.

Explanation of Terms

Display	Meaning
EZ sensor	Programmable sensor
OE sensor	Original sensor from vehicle manufacturer

1. Press button **EZ** (1) to continue to (*„2.8.1 Replace with EZ Sensor“*).
2. Press button O**E** (2) to continue to (*„2.8.2 Replace with OE Sensor“*).

2.8.1 Replace with EZ Sensor



The technical specifications of the wheel sensors must exactly match those of the vehicle. For this reason it is important to select the correct sensor model.

The **iQ 50** displays the required sensor type for each selected vehicle.

Field **Cat.#:** displays the order number of the EZ sensor
Field **Serv.#:** displays the order number of the service kit

1. Press button **Create/Copy** (1) to continue to (*„2.9.1 Copy/Create Sensor“*).
2. Press button **Cancel** (2) (cancel to the last screen).

2.8.2 Replace with OE Sensor

The technical specifications of the wheel sensors must exactly match those of the vehicle. For this reason it is important to select the correct sensor model.

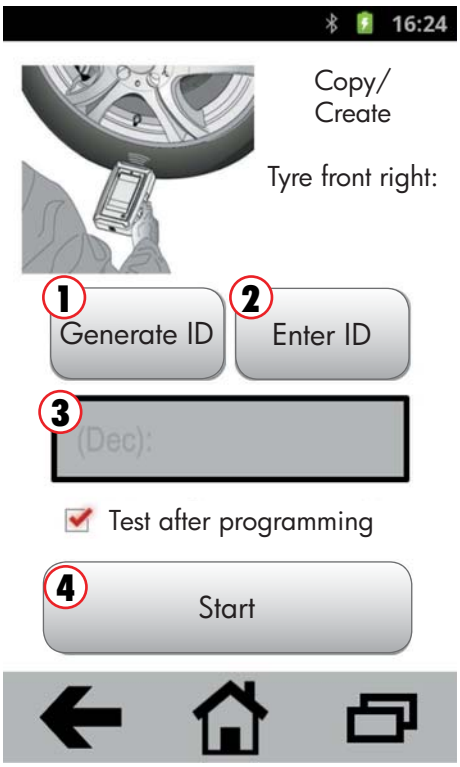
The **iQ 50** displays the required sensor type for each selected vehicle.

Field **Cat.#:** displays the order number of the OE sensor
Field **Serv.#:** displays the order number of the service kit

1. Press button **Cancel** (1) to terminate the display.
   - The Start menu with the vehicle symbol is displayed.
2. Press button **Cancel** (2) (cancel to the last screen).

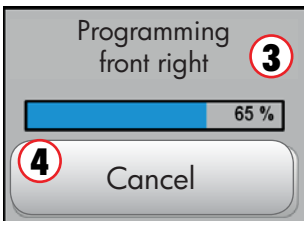
2.9 Program Sensor

2.9.1 Copy/Create Sensor



This menu is used to program and activate an EZ sensor.
During programming, the sensor is assigned a unique sensor ID and receives all the necessary data on the vehicle and the data transmission.

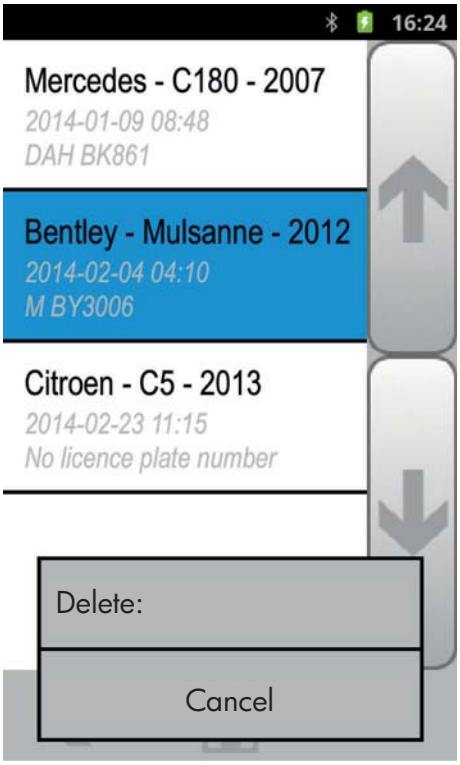
1. Press button **Generate ID** (1) to generate a random sensor ID and to display it in this field (3).
2. Press button **Set ID** (2) to display a keyboard. This keyboard can be used to enter a random sensor ID.
3. Field (3) shows the sensor ID.
4. Press button **Start** (4) to start the programming of the sensor.



A progress bar (3) is displayed during programming.
The overview menu is then displayed with the vehicle symbol and the already activated sensors.

3. Vehicle Selection Last 100 (Button 3)

3.1 List of Last 100 Vehicles



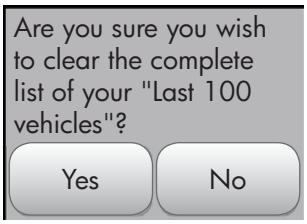
The list of the last 100 vehicles offers quick access to the data of the last 100 vehicles tested.

All the necessary settings for a vehicle are already stored in the device. A further test can be started immediately by selecting such a vehicle. The Test menu is immediately displayed (*„2.7 Sensor Test“*).

The license plate of a vehicle is also displayed in the list if the input of the license plate is activated (*„2.4.2 Enter License Plate“*) in the **Settings** menu.

A specific customer's vehicle can thus be quickly found and called up.

After selecting the vehicle, the display jumps immediately to the Start menu of the test, see (*„2.5 Start Menu for Programming and Diagnostics“*).



After accepting the confirmation prompt, individual vehicles or the complete list can be deleted.

4. Help (Button 4)

Press this button to call up the “Help” function of the **iQ 50**.

Here you will find further information on the following topics:

- Introduction to TPM (Tyre Pressure Monitoring System)
- Overview of TPM
- TPM legislation

5. Settings (Button 5)

Press this button to call up the setting possibilities of the **iQ 50**.

The settings can be called up and changed at any time. Changes are saved automatically. Before saving changes with serious impacts (e.g. changing the language), a confirmation prompt is displayed.

The following setting possibilities are available:

Settings iQ 50

- Language selection
- Audio
- Display brightness
- Reset to factory settings
- Update software
- Sleep mode
- Automatic shutdown
- Time
- Date

- Tyre pressure
- Tyre temperature
- Sensor ID format
- Sensor part number
- EZ sensor part number
- Vehicle license plate

6. Quick Start

Warning

This chapter serves only as a quick-start guide to the device functions already learned.

The more comprehensive information in the corresponding section of the manual must also be observed.

6.1 Replace / Copy / Create Sensor

1. Enter the vehicle data in **iQ 50** (see *2.1)*
2. Position the **iQ 50** at the wheel sensor to be copied [**Fig. II**]
3. Select the sensor position in the **iQ 50** and start the test (see *2.5*)
   The sensor must be recognised with OK values (see *2.7.2*)
4. Select the sensor just tested again by briefly pressing the space alongside the wheel symbol.
   (The black triangle symbol must appear alongside this sensor again)
5. Call up the context menu of the wheel sensor by pressing and holding the space alongside the wheel symbol (see *2.5.2*)
6. Select and call up the desired function

- ② Replace sensor (see *2.8*)
- ③ Copy / create sensor (see *2.9*)

6.2 Teach in Sensor at the Vehicle

Before teaching in a new sensor at the vehicle,
please observe the manufacturer's instructions on this topic.

EU Declaration of Conformity

2169/03.2014

Name of Manufacturer:
WOW! Würth Online World GmbH
Schliffenstraße Falkhof
D-74653 Künzelsau

For the product described below

Designation	Description	Art. No.:
iQ 50	Programming and diagnostic tool	W0272210050

We hereby declare that it conforms to the main protection requirements defined in the following harmonisation directives:

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011
on the restriction of the use of certain hazardous substances in electrical and electronic equipment (revised version) - in short: **RoHS Directive**

DIRECTIVE 1995/5/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 1999
on radio and telecommunications terminal equipment and the mutual recognition of their conformity - in short: **R&TTE Directive**

Information on the relevant underlying harmonised standards or information of the specification for which the conformity is declared:

EN 60950-1:2006/A12:2011		Information technology equipment - Safety - Part 1: General Requirements
EN 62311:2008	2008-09	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)
EN 62479:2010	2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
EN 301 489-1 V1.9.2	2011-09	Electromagnetic compatibility and radio spectrum matters (ERM) - Electromagnetic compatibility (EMC) standard for radio equipment and services - Part 1: Common technical requirements
EN 301 489-3 V1.6.1	2013-08	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for short-range devices (SRD) operating on frequencies between 9 kHz and 246 GHz

EN 301 489-14 V2.2.1	2003-05	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters

Sole responsibility for the issue of this Declaration of Conformity with respect to the compliance with the fundamental demands and the production of the technical documents lies with the manufacturer.

Künzelsau, 27.02.2014

WOW! Würth Online World GmbH
Schliffenstraße Falkhof
D-74653 Künzelsau

Frank Schäfer
Head of Product Management

WOW! Install Software

In order to register the **iQ 50** and to receive future updates for the device, the **iQ 50** must be synchronised WOW! via the software. The WOW! software must installed on a computer for this purpose.

Note! If you already have a valid WOW! software licence and have installed the software, you only need to register the **WSD 50 module**. See also "WOW! Register Software".

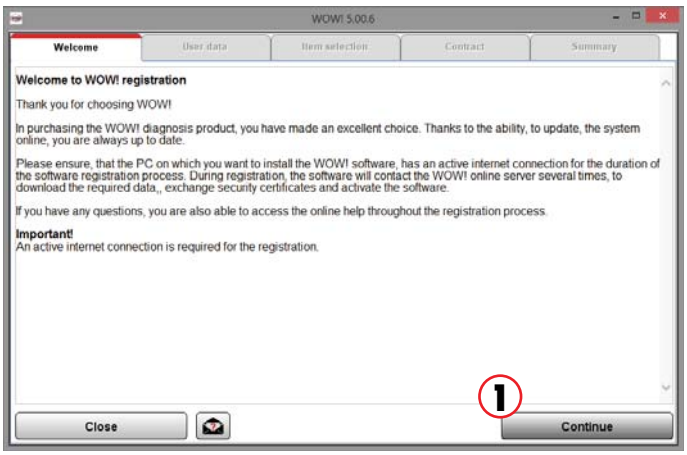
Installation Procedure

1. Place the CD "**iQ 50** Utilities" included in the scope of supply into the drive of your computer.
2. The DVD starts automatically.
3. Select your language.
4. Select WOW!Install software
5. The installation starts after a few seconds.
6. The installation procedure is described in the installation program. Follow the prompts of the installation assistant.
7. After complete installation of the software, the WOW! software starts automatically.

WOW! Register Software

1. Login, registration

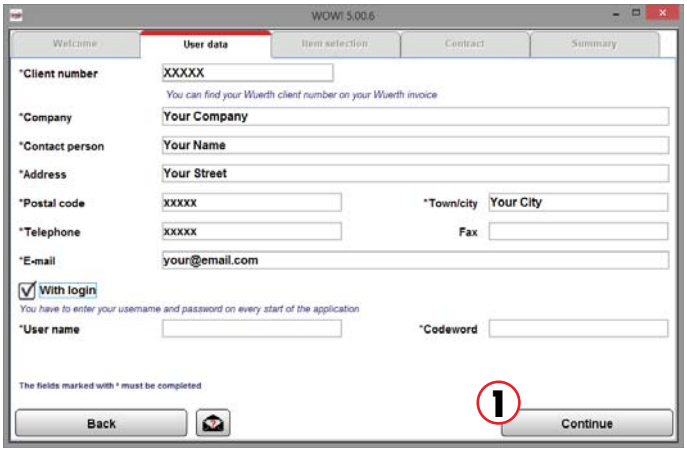
Click "**Registration**" ①.
Follow the prompts of the registration assistant.


WOW! 5.00.6
Welcome
User data
Item selection
Contract
Summary
Welcome to WOW! registration
Thank you for choosing WOW!
In purchasing the WOW! diagnosis product, you have made an excellent choice. Thanks to the ability, to update, the system online, you are always up to date.
Please ensure, that the PC on which you want to install the WOW! software, has an active internet connection for the duration of the software registration process. During registration, the software will contact the WOW! online server several times, to download the required data,, exchange security certificates and activate the software.
If you have any questions, you are also able to access the online help throughout the registration process.
Important!
An active internet connection is required for the registration.
1
Close
Continue

2. Login, registration

Follow the prompts of the registration assistant.

① "**Continue**"

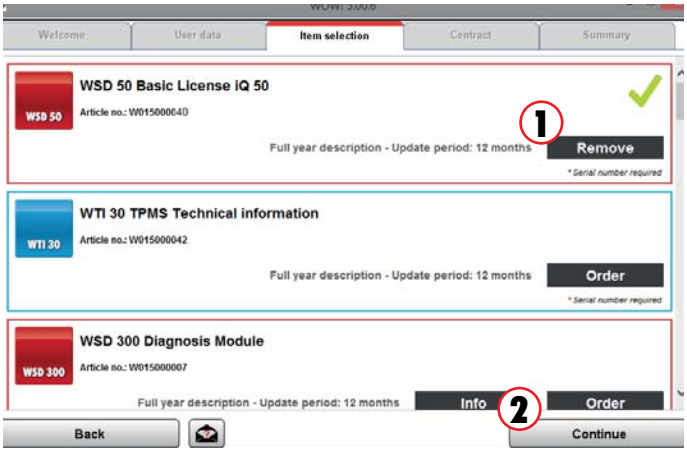


3. Enter customer data.

All fields marked with * must be completed.

- Your customer number can be found e.g. on the delivery note or invoice.
- User name and password are optional and the input is prompted at the start of the program.
  These can be freely selected; pay attention to the use of capital and small letters.

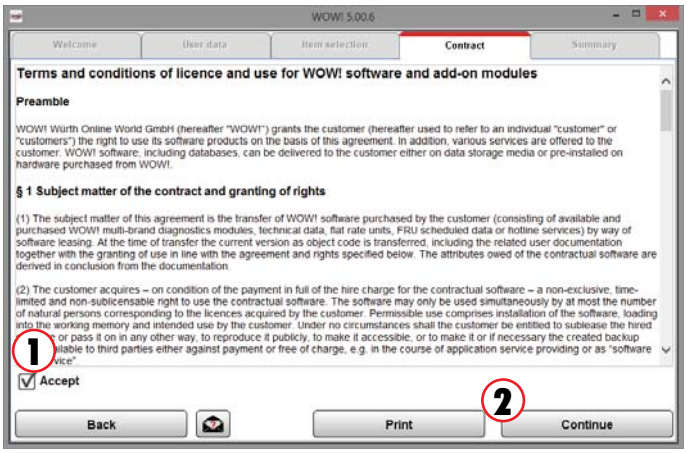
① "**Continue**"



4. Product selection

Minimum selection "**WSD 50**" by clicking on "**Order**" ①.

② "**Continue**"


WOW! 5.00.6
Welcome
User data
Item selection
Contract
Summary
Terms and conditions of licence and use for WOW! software and add-on modules
Preamble
WOW! Würth Online World GmbH (hereafter "WOW!") grants the customer (hereafter used to refer to an individual "customer" or "customers") the right to use its software products on the basis of this agreement. In addition, various services are offered to the customer. WOW! software, including databases, can be delivered to the customer either on data storage media or pre-installed on hardware purchased from WOW!.
§ 1 Subject matter of the contract and granting of rights
(1) The subject matter of this agreement is the transfer of WOW! software purchased by the customer (consisting of available and purchased WOW! multi-brand diagnostics modules, technical data, flat rate units, FRU scheduled data or hotline services) by way of software leasing. At the time of transfer the current version as object code is transferred, including the related user documentation together with the granting of use in line with the agreement and rights specified below. The attributes owed of the contractual software are derived in conclusion from the documentation.
(2) The customer acquires – on condition of the payment in full of the hire charge for the contractual software – a non-exclusive, time-limited and non-sublicensable right to use the contractual software. The software may only be used simultaneously by at most the number of natural persons corresponding to the licences acquired by the customer. Permissible use comprises installation of the software, loading into the working memory and intended use by the customer. Under no circumstances shall the customer be entitled to sublease the hired
or pass it on in any other way, to reproduce it publicly, to make it accessible, or to make it or if necessary the created backup
ilable to third parties either against payment or free of charge, e.g. in the course of application service providing or as "software
vice".
1
Accept
Back
Print
2
Continue

5. General Terms and Conditions

The GTC have to be accepted ① before you can continue.

② "**Continue**"

WOW! 5.00.6
Thank you for registering.
Your data have been successfully transmitted to the server and saved. You will be sent the clearance code and your WoW client number by fax or by post over the next few days.
1
Close

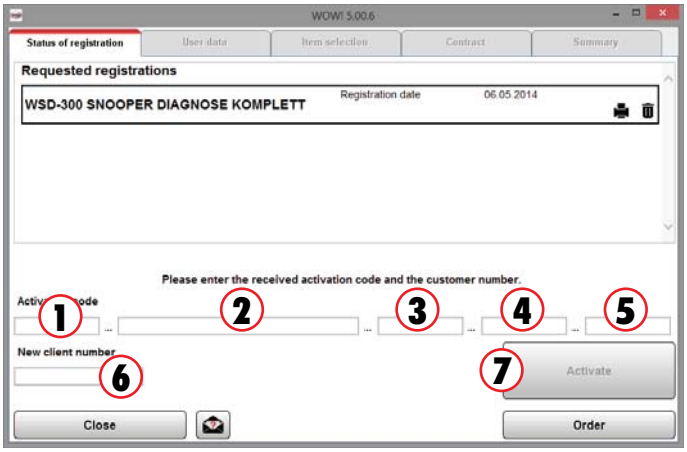
6. Send registration request.

If the computer is online, the registration request is sent automatically to the server. If the computer is not online, the request has to be printed out and sent by fax to your WOW! service partner.

Print out the form here.

The contact data can be found on the delivery note or invoice.

Continue with "**Cancel**" ①



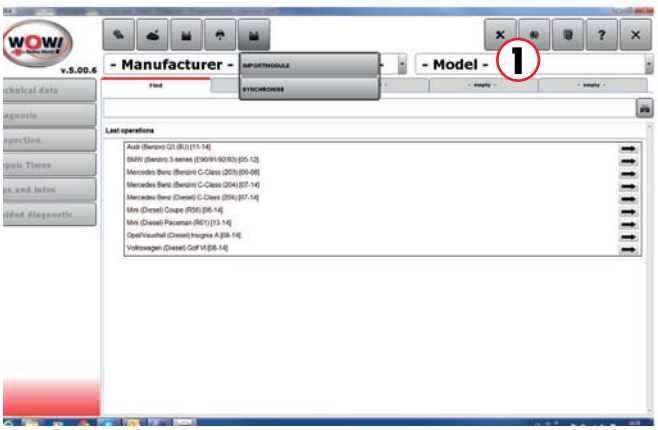
7. Complete registration

The registration code received from your WOW! service partner and the customer number must be entered in the corresponding fields ① - ⑥.

Continue with "**Activate**" ⑦.

The WOW! software and the **iQ 50** are now registered and can be updated online.

Any further registrations requested are automatically copied during an online update and do not have to be entered manually.



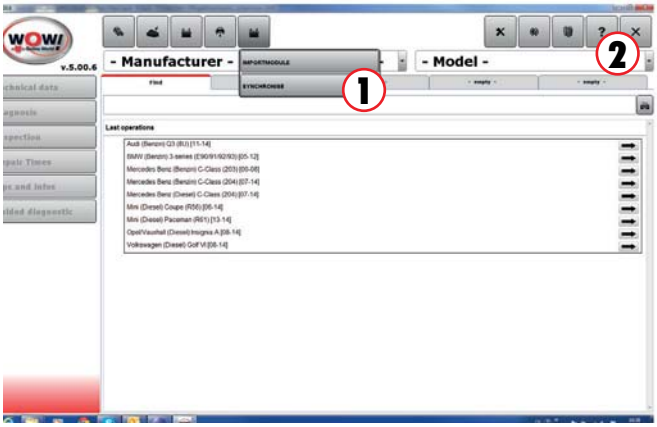
8. **iQ 50** registration and update synchronisation

Start the WOW! program.

The computer must be connected to the Internet.

To start the update, click the button "**Update**" ①.

When the update has been completed, click "**Quit**".



9. Synchronise iQ50 update

The **iQ 50** must be connected to the computer via the USB cable (**iQ 50**) included in the scope of supply.

The synchronisation starts automatically.

The registration and any updates are downloaded.

The synchronisation can also be started manually via the button "**Synchronise**" ①.

Further information on the use of the WOW! software in conjunction with the **iQ 50** can be found in the "Help" of the WOW! software ②.

WOW! Würth Online World GmbH
Schliffenstraße Falkhof
D-74653 Künzelsau-Gaisbach,
Germany
info@wow-portal.com
www.wow-portal.com

WOW! Würth Online World GmbH
Printed in Germany.
All rights reserved
Responsible for content:
WOW! Product Management
Editorial team: Dept. product management

Reprint - even of extracts - is only permitted with approval.
W072210050 -SL- 02/14
Printed on environmentally friendly paper.
We reserve the right to implement without prior announcement or notification product modifications that in our view improve the quality. Figures may serve as examples. The appearance of the items supplied may therefore differ from those depicted. Subject to errors, we assume no liability for printing errors. Our General Terms and Conditions apply.